

Title (en)

Partially cooled hot forming tool

Title (de)

Partiell gekühltes Warmformwerkzeug

Title (fr)

Outil de formage à chaud partiellement refroidi

Publication

**EP 2851138 B1 20161109 (DE)**

Application

**EP 14185090 A 20140917**

Priority

DE 102013110299 A 20130918

Abstract (en)

[origin: US2015075246A1] A tool for hot forming and press hardening a steel structure includes an upper tool and a lower tool, each having a base body made of highly heat conductive material and comprised of at least two segments. The base body of at least one of the upper and lower tools has a cooling channel. Arranged on the base body of at least one of the upper and lower tools is a wear protection shield.

IPC 8 full level

**B21D 22/02** (2006.01); **B21D 22/20** (2006.01); **B21D 37/16** (2006.01)

CPC (source: CN EP US)

**B21D 22/022** (2013.01 - CN EP US); **B21D 22/201** (2013.01 - US); **B21D 22/208** (2013.01 - CN EP US); **B21D 22/22** (2013.01 - US); **B21D 37/16** (2013.01 - CN EP US); **B21K 7/00** (2013.01 - US); **C21D 1/673** (2013.01 - CN EP US); **C21D 9/48** (2013.01 - CN EP US); **C21D 2221/00** (2013.01 - CN EP US)

Cited by

US11873537B2; WO2019120858A1; WO2018138076A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**EP 2851138 A1 20150325; EP 2851138 B1 20161109**; CN 104438599 A 20150325; DE 102013110299 A1 20150319; ES 2608564 T3 20170412; US 2015075246 A1 20150319

DOCDB simple family (application)

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